

## **SECTION 9. THE 2001 FSIS NATIONAL RESIDUE PROGRAM: DOMESTIC MONITORING PLAN AND SPECIAL PROJECTS, AND IMPORT RESIDUE PLAN**

The Food Safety and Inspection Service (FSIS), working with its partner agencies, has developed sampling allocation systems for compound/production class pairs (domestic residue sampling plans) and compound/product class pairs (import residue sampling plan) that are founded on a public health-based prioritization process. These systems each incorporate a structured planning process that employs risk assessment formulas and uses the best available data to develop relative rankings within these formulas. These systems do not, and were not intended to, generate formal absolute estimates of risk that can be interpreted in an actuarial sense. Nevertheless, their relative risk-based rankings are sufficient to develop sound and internally consistent allocations of sampling resources. These rankings help FSIS to manage the public health concerns presented by a comprehensive range of veterinary drugs and pesticides in the egg product, meat, and poultry production classes for which FSIS has regulatory authority.

The final domestic sampling plan for veterinary drugs and pesticides in all production classes is listed in Table 9.1, *Detailed Sampling Plan, 2001 FSIS NRP, Domestic Monitoring Plan and Special Projects*. This table also specifies, for each combination of compound and production class, which FSIS laboratory will be conducting the analyses, and whether the sampling is considered to fall under the Monitoring Plan or Special Projects. For the convenience of the reader, this information is also presented in summary form (including all sampling numbers, but not including the laboratory and sampling plan designation), in Table 9.2, *Summary, 2001 FSIS NRP, Domestic Monitoring Plan and Special Projects*.

The final detailed import plan sample numbers for all compounds (veterinary drugs and pesticides), in all product classes and all countries, are listed in Table 9.3, *Summary, 2001 FSIS NRP, Import Residue Plan*. The summary of the total number of samples per compound per production class is listed in Table 9.4 *Number of Compounds/Production Class, 2001 FSIS NRP, Import Residue Plan*. In Table 9.5, *Number of Samples/Country/Product Class, 2001 FSIS NRP, Import Residue Plan*, the number of samples per country per production class is listed

Finally, a combined summary of the Domestic Monitoring Plan and Special Projects and the Import Residue Plan is provided in Table 9.6, *Combined Summary, 2001 FSIS NRP, Domestic Monitoring Plan and Special Projects, and Import Residue Plan*.

**Table 9.1**  
**Detailed Sampling Plan**  
**2001 FSIS NRP, Monitoring Plan and Special Projects**

<b>ANALYSIS</b>	<b>LAB</b>	<b>PROD. CLASS</b>	<b>#SAMP.</b>	<b>TYPE</b>
Antibiotics by Bioassay	MWL	Dairy cows	<b>690</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Formula-fed	<b>690</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Market hogs	<b>690</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Bob calves	<b>460</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Heifers	<b>460</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Horses	<b>460</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Steers	<b>460</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Young chickens	<b>460</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Young turkeys	<b>460</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Beef cows	<b>300</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Lambs	<b>300</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Rabbits	<b>300</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Ratites	<b>300</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Roaster pigs	<b>300</b>	Special Project
Antibiotics by Bioassay	MWL	Sows	<b>300</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Bison	<b>230</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Boars/Stags	<b>230</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Bulls	<b>230</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Ducks	<b>230</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Goats	<b>230</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Heavy calves	<b>230</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Mature chickens	<b>230</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Mature turkeys	<b>230</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Non-formula	<b>230</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Sheep	<b>230</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Geese	<b>90</b>	Monitoring Plan
Antibiotics by Bioassay	MWL	Squab	<b>45</b>	Monitoring Plan
<b>Total Antibiotics by Bioassay</b>	<b>MWL</b>		<b>9065</b>	

**Table 9.1 - Continued**  
**Detailed Sampling Plan**  
**2001 FSIS NRP, Monitoring Plan and Special Projects**

Avermectins	EL	Horses	<b>460</b>	Monitoring Plan
Avermectins	EL	Steers	<b>460</b>	Monitoring Plan
Avermectins	EL	Beef cows	<b>300</b>	Monitoring Plan
Avermectins	EL	Bulls	<b>300</b>	Monitoring Plan
Avermectins	EL	Dairy cows	<b>300</b>	Monitoring Plan
Avermectins	EL	Goats	<b>300</b>	Monitoring Plan
Avermectins	EL	Heifers	<b>300</b>	Monitoring Plan
Avermectins	EL	Lambs	<b>300</b>	Monitoring Plan
Avermectins	EL	Market hogs	<b>300</b>	Monitoring Plan
Avermectins	EL	Bison	<b>230</b>	Special Project
Avermectins	EL	Bob calves	<b>230</b>	Monitoring Plan
Avermectins	EL	Formula-fed	<b>230</b>	Monitoring Plan
Avermectins	EL	Heavy calves	<b>230</b>	Monitoring Plan
Avermectins	EL	Non-formula	<b>230</b>	Monitoring Plan
Avermectins	EL	Rabbits	<b>230</b>	Monitoring Plan
Avermectins	EL	Ratites	<b>230</b>	Monitoring Plan
Avermectins	EL	Roaster pigs	<b>230</b>	Special Project
Avermectins	EL	Sows	<b>230</b>	Monitoring Plan
Avermectins	EL	Boars/Stags	<b>90</b>	Monitoring Plan
Avermectins	EL	Sheep	<b>90</b>	Monitoring Plan
<b>Total Avermectins</b>	<b>EL</b>		<b>5270</b>	
Arsenicals	EL	Young chickens	1200	Monitoring Plan
Arsenicals	EL	Egg products	460	Monitoring Plan
Arsenicals	EL	Young turkeys	460	Monitoring Plan
Arsenicals	EL	Beef cows	300	Monitoring Plan
Arsenicals	EL	Goats	300	Monitoring Plan
Arsenicals	EL	Market hogs	300	Monitoring Plan
Arsenicals	EL	Ducks	230	Monitoring Plan
Arsenicals	EL	Mature chickens	230	Monitoring Plan
Arsenicals	EL	Roaster pigs	230	Special Project
Arsenicals	EL	Sows	230	Monitoring Plan
Arsenicals	EL	Boars/Stags	90	Monitoring Plan
Arsenicals	EL	Geese	90	Monitoring Plan
Arsenicals	EL	Mature turkeys	90	Monitoring Plan
<b>Total Arsenicals</b>	<b>EL</b>		<b>4210</b>	

**Table 9.1 - Continued**  
**Detailed Sampling Plan**  
**2001 FSIS NRP, Monitoring Plan and Special Projects**

Sulfonamides	MWL or EL	Beef cows	300	Monitoring Plan
Sulfonamides	MWL or EL	Boars/Stags	300	Monitoring Plan
Sulfonamides	MWL or EL	Bob calves	300	Monitoring Plan
Sulfonamides	MWL or EL	Bulls	300	Monitoring Plan
Sulfonamides	MWL or EL	Dairy cows	300	Monitoring Plan
Sulfonamides	EL	Egg products	300	Monitoring Plan
Sulfonamides	MWL or EL	Formula-fed	300	Monitoring Plan
Sulfonamides	MWL or EL	Heifers	300	Monitoring Plan
Sulfonamides	MWL or EL	Lambs	300	Monitoring Plan
Sulfonamides	MWL or EL	Market hogs	300	Monitoring Plan
Sulfonamides	MWL or EL	Mature chickens	300	Monitoring Plan
Sulfonamides	MWL or EL	Mature turkeys	300	Monitoring Plan
Sulfonamides	MWL or EL	Roaster pigs	300	Special Project
Sulfonamides	MWL or EL	Sows	300	Monitoring Plan
Sulfonamides	MWL or EL	Steers	300	Monitoring Plan
Sulfonamides	MWL or EL	Young chickens	300	Monitoring Plan
Sulfonamides	MWL or EL	Young turkeys	300	Monitoring Plan
Sulfonamides	MWL or EL	Bison	230	Special Project
Sulfonamides	MWL or EL	Ducks	230	Monitoring Plan
Sulfonamides	MWL or EL	Goats	230	Monitoring Plan
Sulfonamides	MWL or EL	Heavy calves	230	Monitoring Plan
Sulfonamides	MWL or EL	Horses	230	Monitoring Plan
Sulfonamides	MWL or EL	Non-formula	230	Monitoring Plan
Sulfonamides	MWL or EL	Ratites	230	Monitoring Plan
Sulfonamides	MWL or EL	Geese	90	Monitoring Plan
Sulfonamides	MWL or EL	Squab	45	Monitoring Plan
<b>Total Sulfonamides</b>	<b>MWL + EL</b>		<b>6845</b>	

**Table 9.1 - Continued**  
**Detailed Sampling Plan**  
**2001 FSIS NRP, Monitoring Plan and Special Projects**

ANALYSIS	LAB	PROD. CLASS	#SAMP.	TYPE
CHC's/COP's/Phenylbutazone	WL	Beef cows	460	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Boars/Stags	460	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Dairy cows	460	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Egg products	460	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Heifers	460	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Market hogs	460	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Steers	460	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Young chickens	460	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Young turkeys	460	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Bob calves	300	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Bulls	300	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Formula-fed	300	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Goats	300	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Heavy calves	300	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Horses	300	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Lambs	300	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Mature chickens	300	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Ratites	300	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Sheep	300	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Sows	300	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Bison	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Ducks	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Mature turkeys	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Non-formula	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Geese	90	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Rabbits	90	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Squab	45	Monitoring Plan
<b>Total CHC's/COP's/Phenylbutazone</b>	<b>WL</b>		<b>8585</b>	

**Table 9.1 - Continued**  
**Detailed Sampling Plan**  
**2001 FSIS NRP, Monitoring Plan and Special Projects**

ANALYSIS	LAB	PROD. CLASS	#SAMP.	TYPE
Carbadox	MWL	Roaster pigs	230	Special Project
<b>Total Carbadox</b>	<b>MWL</b>		<b>230</b>	
Chloramphenicol	MWL	Dairy cows	300	Special Project
Chloramphenicol	MWL	Formula-fed veal	300	Special Project
Chloramphenicol	MWL	Non-formula-fed veal	300	Special Project
<b>Total Chloramphenicol</b>	<b>MWL</b>		<b>900</b>	
Clenbuterol and other beta ags.*	WL+FDA	Formula-fed veal	300	Special Project
Clenbuterol and other beta ags.*	WL+FDA	Market hogs	300	Special Project
Clenbuterol and other beta ags.*	WL+FDA	Steers	300	Special Project
<b>Total Clenbuterol, other beta ags.*</b>	<b>WL+FDA</b>		<b>900</b>	
DES/zeranol/trenbolone	MWL	Formula-fed veal	250	Special Project
<b>Total DES/zeranol/trenbolone</b>	<b>MWL</b>		<b>250</b>	
Fluoroquinolones	MWL	Dairy cows	460	Monitoring Plan
Fluoroquinolones	MWL	Young chickens	230	Monitoring Plan
<b>Total Fluoroquinolones</b>	<b>MWL</b>		<b>690</b>	
MGA (melengesterol acetate)	MWL	Heifers	230	Special Project
<b>Total MGA</b>			<b>230</b>	
Ractopamine	MWL	Market hogs	230	Special Project
Ractopamine	MWL	Steers	120	Special Project
<b>Total Ractopamine</b>			<b>350</b>	

\*Samples from a total of 900 animals (from each animal, both eyeballs and a pound of liver will be collected) will be sent to WL. WL will perform a screen for clenbuterol in the eyeball, which is the most sensitive tissue in which to test for the presence of beta agonists. This screen has been officially validated for clenbuterol only, but has also demonstrated the ability to detect other beta agonists, including fenoterol and cimaterol. If the sample is positive, WL will send an eyeball to FDA for confirmatory analysis using mass spectrometry. The FDA confirmatory method detects eight unapproved beta agonists (clenbuterol, cimaterol, fenoterol, mabuterol, salbutamol, brombuterol, and terbutaline). WL will retain the liver should additional testing be necessary.

**Key:**

PROD. CLASS = Production class; TBD = To be determined, contingent upon availability of resources; CHC = Chlorinated hydrocarbon; COP = Chlorinated organophosphate; EL = FSIS Eastern Laboratory, Athens, GA; MWL = FSIS Midwestern Laboratory, St. Louis, MO; WL = FSIS Western Laboratory, Alameda, CA

**Table 9.2**  
**Summary**  
**2001 FSIS NRP, Monitoring Plan and Special Projects**

<b>PRODUCTION CLASS</b>	<b>Antibiotics</b>	<b>Arsenicals</b>	<b>Avermectins</b>	<b>Sulfonamides</b>	<b>CHC's/ COP's/ phenylbut.</b>	<b>Carbadox</b>
Bulls	230		300	300	300	
Beef cows	300	300	300	300	460	
Dairy cows	690		300	300	460	
Heifers	460		300	300	460	
Steers	460		460	300	460	
Bob calves	460		230	300	300	
Formula-fed veal calves	690		230	300	300	
Non-formula-fed veal calves	230		230	230	230	
Heavy calves	230		230	230	300	
<b>SUBTOTAL, CATTLE</b>	<b>3750</b>	<b>300</b>	<b>2580</b>	<b>2560</b>	<b>3270</b>	<b>0</b>
Market hogs	690	300	300	300	460	
Roaster pigs	300	230	230	300		230
Boars/Stags	230	90	90	300	460	
Sows	300	230	230	300	300	
<b>SUBTOTAL, SWINE</b>	<b>1520</b>	<b>850</b>	<b>850</b>	<b>1200</b>	<b>1220</b>	<b>230</b>
Sheep	230		90		300	
Lambs	300		300	300	300	
<b>SUBTOTAL, OVINE</b>	<b>530</b>	<b>0</b>	<b>390</b>	<b>300</b>	<b>600</b>	<b>0</b>
Goats	230	300	300	230	300	
Horses	460		460	230	300	
Bison	230		230	230	230	
<b>TOTAL, ALL LIVESTOCK</b>	<b>6720</b>	<b>1450</b>	<b>4810</b>	<b>4750</b>	<b>5920</b>	<b>230</b>
Young chickens	460	1200		300	460	
Mature chickens	230	230		300	300	
Young turkeys	460	460		300	460	
Mature turkeys	230	90		300	230	
Ducks	230	230		230	230	
Geese	90	90		90	90	
Ratites	300		230	230	300	
Squab	45			45	45	
<b>SUBTOTAL, POULTRY</b>	<b>2045</b>	<b>2300</b>	<b>230</b>	<b>1795</b>	<b>2115</b>	<b>0</b>
Rabbits	300		230		90	
Egg products		460		300	460	
<b>Numbers in table</b>						
<b>GRAND TOTAL, ALL PRODUCTION CLASSES</b>	<b>9065</b>	<b>4210</b>	<b>5270</b>	<b>6845</b>	<b>8585</b>	<b>230</b>

**Table 9.2 - Continued**  
**Summary**  
**2001 FSIS NRP, Monitoring Plan and Special Projects**

<b>PRODUCTION CLASS</b>	<b>Chloram-phenicol</b>	<b>Clenbuterol and other beta agonists*</b>	<b>DES/ zeranol/ trenbolone</b>	<b>Fluoro-quinolones</b>	<b>MGA</b>	<b>Ractopamine</b>
Bulls						
Beef cows						
Dairy cows	300			460		
Heifers					230	
Steers		300				120
Bob calves						
Formula-fed veal calves	300	300	250			
Non-formula-fed veal calves	300					
Heavy calves						
<b>SUBTOTAL, CATTLE</b>	<b>900</b>	<b>600</b>	<b>250</b>	<b>460</b>	<b>230</b>	<b>120</b>
Market hogs		300				230
Roaster pigs						
Boars/Stags						
Sows						
<b>SUBTOTAL, SWINE</b>	<b>0</b>	<b>300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>230</b>
Sheep						
Lambs						
<b>SUBTOTAL, OVINE</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Goats						
Horses						
Bison						
<b>TOTAL, ALL LIVESTOCK</b>	<b>0</b>	<b>900</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Young chickens				230		
Mature chickens						
Young turkeys						
Mature turkeys						
Ducks						
Geese						
Ratites						
<b>SUBTOTAL, POULTRY</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>230</b>	<b>0</b>	<b>0</b>
Rabbits						
Egg products						
<b>GRAND TOTAL, ALL PRODUCTION CLASSES</b>	<b>900</b>		<b>250</b>	<b>690</b>	<b>230</b>	<b>350</b>
		<b>900</b>				

\* The methodology employs a screen that has been officially validated for clenbuterol only, but has also demonstrated the ability to detect other beta agonists (including fenoterol and cimaterol), followed by a confirmatory method that detects eight unapproved beta agonists (clenbuterol, cimaterol, fenoterol, mabuterol, salbutamol, brombuterol, and terbutaline).

**Key:**

TBD = To be determined



**Table 9.3**  
**Summary**  
**2001 FSIS NRP, Import Residue Plan**

COUNTRY	PRODUCT	COMPOUND	NO. SAMPLES
Argentina	Beef , fresh	Antibiotics	12
Argentina	Beef , fresh	Avermectins	8
Argentina	Beef, fresh	CHC's/COP's/Phenylbutazone	12
Argentina	Beef, fresh	Chloramphenicol	8
Argentina	Beef, fresh	Sulfonamides	8
Argentina	Beef, processed	CHC's/COP's/Phenylbutazone	46
Argentina	Beef, processed	Sulfonamides	31
Australia	Beef , fresh	Antibiotics	131
Australia	Beef , fresh	Avermectins	80
Australia	Beef, fresh	CHC's/COP's/Phenylbutazone	131
Australia	Beef, fresh	Chloramphenicol	80
Australia	Beef, fresh	Sulfonamides	80
Australia	Beef, processed	CHC's/COP's/Phenylbutazone	8
Australia	Beef, processed	Sulfonamides	8
Australia	Goat, fresh	Antibiotics	8
Australia	Goat, fresh	Arsenicals	8
Australia	Goat, fresh	Avermectins	8
Australia	Goat, fresh	CHC's/COP's/Phenylbutazone	8
Australia	Goat, fresh	Sulfonamides	8
Australia	Mutton/lamb, fresh	Antibiotics	39
Australia	Mutton/lamb, fresh	Avermectins	39
Australia	Mutton/lamb, fresh	CHC's/COP's/Phenylbutazone	133
Australia	Mutton/lamb, fresh	Sulfonamides	39
Australia	Mutton/lamb, processed	CHC's/COP's/Phenylbutazone	8
Australia	Mutton/lamb, processed	Sulfonamides	8
Australia	Pork, fresh	Antibiotics	8
Australia	Pork, fresh	Arsenicals	8
Australia	Pork, fresh	Avermectins	8
Australia	Pork, fresh	Carbadox	8
Australia	Pork, fresh	CHC's/COP's/Phenylbutazone	8
Australia	Pork, fresh	Sulfonamides	8
Australia	Pork, processed	Arsenicals	8
Australia	Pork, processed	CHC's/COP's/Phenylbutazone	8
Australia	Pork, processed	Sulfonamides	8
Australia	Varied combination, processed	Sulfonamides	8
Australia	Varied Combo, processed	CHC's/COP's/Phenylbutazone	8
Australia	Veal, fresh	Antibiotics	12
Australia	Veal, fresh	Avermectins	12
Australia	Veal, fresh	CHC's/COP's/Phenylbutazone	12
Australia	Veal, fresh	Chloramphenicol	8
Australia	Veal, fresh	Sulfonamides	12
Austria	Pork, processed	Arsenicals	8
Austria	Pork, processed	CHC's/COP's/Phenylbutazone	8
Austria	Pork, processed	Sulfonamides	8
Belgium	Pork, processed	Arsenicals	8
Belgium	Pork, processed	CHC's/COP's/Phenylbutazone	9
Belgium	Pork, processed	Sulfonamides	8
Brazil	Beef, processed	CHC's/COP's/Phenylbutazone	118
Brazil	Beef, processed	Sulfonamides	82
Canada	Beef , fresh	Antibiotics	176
Canada	Beef , fresh	Avermectins	109

**Table 9.3 - Continued**  
**Summary**  
**2001 FSIS NRP, Import Residue Plan**

COUNTRY	PRODUCT	COMPOUND	NO. SAMPLES
Canada	Beef, fresh	CHC's/COP's/Phenylbutazone	176
Canada	Beef, fresh	Chloramphenicol	109
Canada	Beef, fresh	Sulfonamides	109
Canada	Beef, processed	CHC's/COP's/Phenylbutazone	64
Canada	Beef, processed	Sulfonamides	44
Canada	Beef/pork, processed	Arsenicals	8
Canada	Beef/pork, processed	CHC's/COP's/Phenylbutazone	8
Canada	Beef/pork, processed	Sulfonamides	8
Canada	Chicken, fresh	Antibiotics	8
Canada	Chicken, fresh	Arsenicals	8
Canada	Chicken, fresh	CHC's/COP's/Phenylbutazone	8
Canada	Chicken, fresh	Fluoroquinolones	8
Canada	Chicken, fresh	Sulfonamides	8
Canada	Chicken, processed	Arsenicals	66
Canada	Chicken, processed	CHC's/COP's/Phenylbutazone	66
Canada	Chicken, processed	Sulfonamides	66
Canada	Horse, fresh	Antibiotics	8
Canada	Horse, fresh	Avermectins	8
Canada	Horse, fresh	CHC's/COP's/Phenylbutazone	8
Canada	Horse, fresh	Sulfonamides	8
Canada	Mutton/lamb, fresh	Antibiotics	8
Canada	Mutton/lamb, fresh	Avermectins	8
Canada	Mutton/lamb, fresh	CHC's/COP's/Phenylbutazone	8
Canada	Mutton/lamb, fresh	Sulfonamides	8
Canada	Mutton/lamb, processed	CHC's/COP's/Phenylbutazone	8
Canada	Mutton/lamb, processed	Sulfonamides	8
Canada	Other fowl, fresh	Antibiotics	8
Canada	Other Fowl, fresh	Arsenicals	8
Canada	Other Fowl, fresh	CHC's/COP's/Phenylbutazone	8
Canada	Other Fowl, fresh	Fluoroquinolones	8
Canada	Other fowl, fresh	Sulfonamides	8
Canada	Other fowl, processed	Arsenicals	8
Canada	Other fowl, processed	CHC's/COP's/Phenylbutazone	8
Canada	Other fowl, processed	Sulfonamides	8
Canada	Pork, fresh	Antibiotics	232
Canada	Pork, fresh	Arsenicals	232
Canada	Pork, fresh	Avermectins	232
Canada	Pork, fresh	Carbadox	44
Canada	Pork, fresh	CHC's/COP's/Phenylbutazone	232
Canada	Pork, fresh	Sulfonamides	232
Canada	Pork, processed	Arsenicals	8
Canada	Pork, processed	CHC's/COP's/Phenylbutazone	120
Canada	Pork, processed	Sulfonamides	79
Canada	Turkey, fresh	Antibiotics	8
Canada	Turkey, fresh	Arsenicals	8
Canada	Turkey, fresh	CHC's/COP's/Phenylbutazone	8
Canada	Turkey, fresh	Fluoroquinolones	8
Canada	Turkey, fresh	Sulfonamides	8
Canada	Turkey, processed	Arsenicals	8
Canada	Turkey, processed	CHC's/COP's/Phenylbutazone	8
Canada	Turkey, processed	Sulfonamides	8

**Table 9.3 - Continued**  
**Summary**  
**2001 FSIS NRP, Import Residue Plan**

<b>COUNTRY</b>	<b>PRODUCT</b>	<b>COMPOUND</b>	<b>NO. SAMPLES</b>
<b>Canada</b>	Varied combination processed	Sulfonamides	8
<b>Canada</b>	Varied combination, processed	CHC's/COP's/Phenylbutazone	8
<b>Canada</b>	Veal, fresh	Antibiotics	38
<b>Canada</b>	Veal, fresh	Avermectins	38
<b>Canada</b>	Veal, fresh	CHC's/COP's/Phenylbutazone	38
<b>Canada</b>	Veal, fresh	Chloramphenicol	8
<b>Canada</b>	Veal, fresh	Sulfonamides	38
<b>Canada</b>	Veal, processed	CHC's/COP's/Phenylbutazone	8
<b>Canada</b>	Veal, processed	Sulfonamides	8
<b>Costa Rica</b>	Beef, fresh	Antibiotics	8
<b>Costa Rica</b>	Beef, fresh	Avermectins	8
<b>Costa Rica</b>	Beef, fresh	CHC's/COP's/Phenylbutazone	8
<b>Costa Rica</b>	Beef, fresh	Chloramphenicol	8
<b>Costa Rica</b>	Beef, fresh	Sulfonamides	8
<b>Costa Rica</b>	Beef, processed	CHC's/COP's/Phenylbutazone	8
<b>Costa Rica</b>	Beef, processed	Sulfonamides	8
<b>Croatia</b>	Beef, processed	CHC's/COP's/Phenylbutazone	8
<b>Croatia</b>	Beef, processed	Sulfonamides	8
<b>Croatia</b>	Pork, processed	Arsenicals	8
<b>Croatia</b>	Pork, processed	CHC's/COP's/Phenylbutazone	8
<b>Croatia</b>	Pork, processed	Sulfonamides	8
<b>Croatia</b>	Varied combination processed	Sulfonamides	8
<b>Croatia</b>	Varied combination, processed	CHC's/COP's/Phenylbutazone	8
<b>Denmark</b>	Pork, fresh	Antibiotics	28
<b>Denmark</b>	Pork, fresh	Arsenicals	28
<b>Denmark</b>	Pork, fresh	Avermectins	28
<b>Denmark</b>	Pork, fresh	Carbadox	8
<b>Denmark</b>	Pork, fresh	CHC's/COP's/Phenylbutazone	28
<b>Denmark</b>	Pork, fresh	Sulfonamides	28
<b>Denmark</b>	Pork, processed	Arsenicals	8
<b>Denmark</b>	Pork, processed	CHC's/COP's/Phenylbutazone	45
<b>Denmark</b>	Pork, processed	Sulfonamides	27
<b>Finland</b>	Pork, fresh	Antibiotics	8
<b>Finland</b>	Pork, fresh	Arsenicals	8
<b>Finland</b>	Pork, fresh	Avermectins	8
<b>Finland</b>	Pork, fresh	Carbadox	8
<b>Finland</b>	Pork, fresh	CHC's/COP's/Phenylbutazone	8
<b>Finland</b>	Pork, fresh	Sulfonamides	8
<b>France</b>	Other fowl, fresh	Antibiotics	8
<b>France</b>	Other fowl, fresh	Arsenicals	8
<b>France</b>	Other fowl, fresh	CHC's/COP's/Phenylbutazone	8
<b>France</b>	Other fowl, fresh	Fluoroquinolones	8
<b>France</b>	Other fowl, fresh	Sulfonamides	8
<b>France</b>	Other fowl, processed	Arsenicals	8
<b>France</b>	Other fowl, processed	CHC's/COP's/Phenylbutazone	8
<b>France</b>	Other fowl, processed	Sulfonamides	8
<b>France</b>	Pork, processed	Arsenicals	8
<b>France</b>	Pork, processed	CHC's/COP's/Phenylbutazone	8
<b>France</b>	Pork, processed	Sulfonamides	8
<b>France</b>	Varied combination, processed	Sulfonamides	8
<b>France</b>	Varied Combo, processed	CHC's/COP's/Phenylbutazone	8

**Table 9.3 - Continued**  
**Summary**  
**2001 FSIS NRP, Import Residue Plan**

<b>COUNTRY</b>	<b>PRODUCT</b>	<b>COMPOUND</b>	<b>NO. SAMPLES</b>
Germany	Beef, processed	CHC's/COP's/Phenylbutazone	8
Germany	Beef, processed	Sulfonamides	8
Germany	Pork, processed	Arsenicals	8
Germany	Pork, processed	CHC's/COP's/Phenylbutazone	8
Germany	Pork, processed	Sulfonamides	8
Honduras	Beef, fresh	Antibiotics	8
Honduras	Beef, fresh	Avermectins	8
Honduras	Beef, fresh	CHC's/COP's/Phenylbutazone	8
Honduras	Beef, fresh	Chloramphenicol	8
Honduras	Beef, fresh	Sulfonamides	8
Hong Kong	Chicken, processed	Arsenicals	8
Hong Kong	Chicken, processed	CHC's/COP's/Phenylbutazone	8
Hong Kong	Chicken, processed	Sulfonamides	8
Hong Kong	Turkey, processed	Arsenicals	8
Hong Kong	Turkey, processed	CHC's/COP's/Phenylbutazone	8
Hong Kong	Turkey, processed	Sulfonamides	8
Hungary	Pork, processed	Arsenicals	8
Hungary	Pork, processed	CHC's/COP's/Phenylbutazone	8
Hungary	Pork, processed	Sulfonamides	8
Iceland	Mutton/lamb, fresh	Antibiotics	8
Iceland	Mutton/lamb, fresh	Avermectins	8
Iceland	Mutton/lamb, fresh	CHC's/COP's/Phenylbutazone	8
Iceland	Mutton/lamb, fresh	Sulfonamides	8
Ireland	Pork, fresh	Antibiotics	8
Ireland	Pork, fresh	Arsenicals	8
Ireland	Pork, fresh	Avermectins	8
Ireland	Pork, fresh	Carbadox	8
Ireland	Pork, fresh	CHC's/COP's/Phenylbutazone	8
Ireland	Pork, fresh	Sulfonamides	8
Ireland	Pork, processed	Arsenicals	8
Ireland	Pork, processed	CHC's/COP's/Phenylbutazone	8
Ireland	Pork, processed	Sulfonamides	8
Israel	Chicken, processed	Arsenicals	8
Israel	Chicken, processed	CHC's/COP's/Phenylbutazone	8
Israel	Chicken, processed	Sulfonamides	8
Israel	Turkey, processed	Arsenicals	8
Israel	Turkey, processed	CHC's/COP's/Phenylbutazone	8
Israel	Turkey, processed	Sulfonamides	8
Italy	Beef, processed	CHC's/COP's/Phenylbutazone	8
Italy	Beef, processed	Sulfonamides	8
Italy	Pork, processed	Arsenicals	8
Italy	Pork, processed	CHC's/COP's/Phenylbutazone	8
Italy	Pork, processed	Sulfonamides	8
Japan	Beef, fresh	Antibiotics	8
Japan	Beef, fresh	Avermectins	8
Japan	Beef, fresh	CHC's/COP's/Phenylbutazone	8
Japan	Beef, fresh	Chloramphenicol	8
Japan	Beef, fresh	Sulfonamides	8
Mexico	Beef, fresh	Antibiotics	8
Mexico	Beef, fresh	Avermectins	8
Mexico	Beef, fresh	CHC's/COP's/Phenylbutazone	8

**Table 9.3 - Continued**  
**Summary**  
**2001 FSIS NRP, Import Residue Plan**

<b>COUNTRY</b>	<b>PRODUCT</b>	<b>COMPOUND</b>	<b>NO. SAMPLES</b>
<b>Mexico</b>	Beef, fresh	Chloramphenicol	8
<b>Mexico</b>	Beef, fresh	Sulfonamides	8
<b>Mexico</b>	Beef, processed	CHC's/COP's/Phenylbutazone	8
<b>Mexico</b>	Beef, processed	Sulfonamides	8
<b>Mexico</b>	Chicken, processed	Arsenicals	8
<b>Mexico</b>	Chicken, processed	CHC's/COP's/Phenylbutazone	8
<b>Mexico</b>	Chicken, processed	Sulfonamides	8
<b>Mexico</b>	Mutton/lamb, fresh	Antibiotics	8
<b>Mexico</b>	Mutton/lamb, fresh	Avermectins	8
<b>Mexico</b>	Mutton/lamb, fresh	CHC's/COP's/Phenylbutazone	8
<b>Mexico</b>	Mutton/lamb, fresh	Sulfonamides	8
<b>Mexico</b>	Pork, processed	Arsenicals	8
<b>Mexico</b>	Pork, processed	CHC's/COP's/Phenylbutazone	8
<b>Mexico</b>	Pork, processed	Sulfonamides	8
<b>Netherlands</b>	Pork, processed	Arsenicals	8
<b>Netherlands</b>	Pork, processed	CHC's/COP's/Phenylbutazone	15
<b>Netherlands</b>	Pork, processed	Sulfonamides	10
<b>New Zealand</b>	Beef , fresh	Antibiotics	90
<b>New Zealand</b>	Beef , fresh	Avermectins	56
<b>New Zealand</b>	Beef, fresh	CHC's/COP's/Phenylbutazone	90
<b>New Zealand</b>	Beef, fresh	Chloramphenicol	56
<b>New Zealand</b>	Beef, fresh	Sulfonamides	56
<b>New Zealand</b>	Beef, processed	CHC's/COP's/Phenylbutazone	8
<b>New Zealand</b>	Beef, processed	Sulfonamides	8
<b>New Zealand</b>	Beef/pork, processed	Arsenicals	8
<b>New Zealand</b>	Beef/pork, processed	CHC's/COP's/Phenylbutazone	8
<b>New Zealand</b>	Beef/pork, processed	Sulfonamides	8
<b>New Zealand</b>	Goat, fresh	Antibiotics	8
<b>New Zealand</b>	Goat, fresh	Arsenicals	8
<b>New Zealand</b>	Goat, fresh	Avermectins	8
<b>New Zealand</b>	Goat, fresh	CHC's/COP's/Phenylbutazone	8
<b>New Zealand</b>	Goat, fresh	Sulfonamides	8
<b>New Zealand</b>	Mutton/lamb, fresh	Antibiotics	19
<b>New Zealand</b>	Mutton/lamb, fresh	Avermectins	19
<b>New Zealand</b>	Mutton/lamb, fresh	CHC's/COP's/Phenylbutazone	65
<b>New Zealand</b>	Mutton/lamb, fresh	Sulfonamides	19
<b>New Zealand</b>	Mutton/lamb, processed	CHC's/COP's/Phenylbutazone	8
<b>New Zealand</b>	Mutton/lamb, processed	Sulfonamides	8
<b>New Zealand</b>	Varied combination processed	Sulfonamides	8
<b>New Zealand</b>	Varied combination, processed	CHC's/COP's/Phenylbutazone	8
<b>New Zealand</b>	Veal, fresh	Antibiotics	40
<b>New Zealand</b>	Veal, fresh	CHC's/COP's/Phenylbutazone	40
<b>New Zealand</b>	Veal, fresh	Chloramphenicol	8
<b>New Zealand</b>	Veal, fresh	Sulfonamides	40
<b>Nicaragua</b>	Beef , fresh	Antibiotics	8
<b>Nicaragua</b>	Beef , fresh	Avermectins	8
<b>Nicaragua</b>	Beef, fresh	CHC's/COP's/Phenylbutazone	8
<b>Nicaragua</b>	Beef, fresh	Chloramphenicol	8
<b>Nicaragua</b>	Beef, fresh	Sulfonamides	8
<b>Northern Ireland</b>	Pork, processed	Arsenicals	8
<b>Northern Ireland</b>	Pork, processed	CHC's/COP's/Phenylbutazone	8

**Table 9.3 - Continued**  
**Summary**  
**2001 FSIS NRP, Import Residue Plan**

<b>COUNTRY</b>	<b>PRODUCT</b>	<b>COMPOUND</b>	<b>NO. SAMPLES</b>
<b>Northern Ireland</b>	Pork, processed	Sulfonamides	8
<b>Poland</b>	Beef/pork, processed	Arsenicals	8
<b>Poland</b>	Beef/pork, processed	CHC's/COP's/Phenylbutazone	8
<b>Poland</b>	Beef/pork, processed	Sulfonamides	8
<b>Poland</b>	Pork, processed	Arsenicals	8
<b>Poland</b>	Pork, processed	CHC's/COP's/Phenylbutazone	16
<b>Poland</b>	Pork, processed	Sulfonamides	11
<b>Spain</b>	Pork, processed	Arsenicals	8
<b>Spain</b>	Pork, processed	CHC's/COP's/Phenylbutazone	8
<b>Spain</b>	Pork, processed	Sulfonamides	8
<b>Sweden</b>	Pork, fresh	Antibiotics	8
<b>Sweden</b>	Pork, fresh	Arsenicals	8
<b>Sweden</b>	Pork, fresh	Avermectins	8
<b>Sweden</b>	Pork, fresh	Carbadox	8
<b>Sweden</b>	Pork, fresh	CHC's/COP's/Phenylbutazone	8
<b>Sweden</b>	Pork, fresh	Sulfonamides	8
<b>Switzerland</b>	Beef, processed	CHC's/COP's/Phenylbutazone	8
<b>Switzerland</b>	Beef, processed	Sulfonamides	8
<b>Switzerland</b>	Pork, Processed	Arsenicals	8
<b>Switzerland</b>	Pork, processed	CHC's/COP's/Phenylbutazone	8
<b>Switzerland</b>	Pork, processed	Sulfonamides	8
<b>UK</b>	Pork, fresh	Antibiotics	8
<b>UK</b>	Pork, fresh	Arsenicals	8
<b>UK</b>	Pork, fresh	Avermectins	8
<b>UK</b>	Pork, fresh	Carbadox	8
<b>UK</b>	Pork, fresh	CHC's/COP's/Phenylbutazone	8
<b>UK</b>	Pork, fresh	Sulfonamides	8
<b>Uruguay</b>	Beef, fresh	Antibiotics	10
<b>Uruguay</b>	Beef, fresh	Avermectins	8
<b>Uruguay</b>	Beef, fresh	CHC's/COP's/Phenylbutazone	10
<b>Uruguay</b>	Beef, fresh	Chloramphenicol	8
<b>Uruguay</b>	Beef, fresh	Sulfonamides	8
<b>Uruguay</b>	Beef, processed	CHC's/COP's/Phenylbutazone	8
<b>Uruguay</b>	Beef, processed	Sulfonamides	8
<b>Uruguay</b>	Mutton/lamb, fresh	Antibiotics	8
<b>Uruguay</b>	Mutton/lamb, fresh	Avermectins	8
<b>Uruguay</b>	Mutton/lamb, fresh	CHC's/COP's/Phenylbutazone	8
<b>Uruguay</b>	Mutton/lamb, fresh	Sulfonamides	8
			6332

**Table 9.4**  
**Number of Compounds/Production Class**  
**2001 FSIS NRP, Import Residue Plan**

<b>Compound →</b>	<b>Anti-biotics</b>	<b>Arsen-icals</b>	<b>Aver-mectin</b>	<b>Carbadox</b>	<b>Chloram-phenicol</b>	<b>Fluoro-quin-olones</b>	<b>Sulfas</b>	<b>CHC/ COP/ Phenyl- butazone</b>	<b>Total</b>
Beef, fresh	459		301		301		301	459	1821
Beef, processed							229	300	529
Beef/Pork, processed		24					24	24	72
Chicken, fresh	8	8				8	8	8	40
Chicken, processed		90					90	90	270
Goat, fresh	16	16	16				16	16	80
Horse, fresh	8		8				8	8	32
Mutton/Lamb, fresh	90		90				90	230	500
Mutton/Lamb, processed							24	24	48
Other Fowl, fresh	16	16				16	16	16	80
Other Fowl, processed		16					16	16	48
Pork, fresh	300	300	300	92			300	300	1592
Pork, processed		136					231	301	668
Turkey, fresh	8	8				8	8	8	40
Turkey, processed		24					24	24	72
Varied combination, processed							40	40	80
Veal, fresh	90		50		24		90	90	344
Veal, processed							8	8	16
<b>Total</b>	<b>995</b>	<b>638</b>	<b>765</b>	<b>92</b>	<b>325</b>	<b>32</b>	<b>1523</b>	<b>1962</b>	<b>6332</b>

**Table 9.5**  
**Number of Samples/Country/Product Class**  
**2001 FSIS NRP, Import Residue Plan**

	Beef, fresh	Beef, processed	Beef/Pork, processed	Chicken, fresh	Chicken, processed	Goat, fresh	Horse, fresh	Mutton/Lamb, fresh	Mutton/Lamb, processed	Other Fowl, fresh	Other Fowl, processed	Pork, fresh	Pork, processed	Turkey, fresh	Turkey, processed	Varied combination, processed	Veal, fresh	Veal, processed	Total
Argentina	48	77																	125
Australia	502	16				40		250	16			48	24			16	56		968
Austria													24						24
Belgium													25						25
Brazil		200																	200
Canada	679	108	24	40	198		32	32	16	40	24	1204	207	40	24	16	160	16	2860
Costa Rica	40	16																	56
Croatia		16											24				16		56
Denmark												148	80						228
Finland												48							48
France										40	24		24			16			104
Germany		16											24						40
Honduras	40																		40
Hong Kong					24										24				48
Hungary													24						24
Iceland								32											32
Ireland												48	24						72
Israel					24										24				48
Italy	16												24						40
Japan	40																		40
Mexico	40	16			24			32					24						136
Netherlands													33						33
New Zealand	348	16	24			40		122	16							16	128		710
Northern Ireland													24						24
Nicaragua	40																		40
Poland			24										35						59
Spain													24						24
Sweden												48							48
Switzerland													40						40
UK												48							48
Uruguay	44	16						32											92



**Table 9.6**  
**Combined Summary**  
**2001 FSIS NRP, Domestic Monitoring Plan and Special Projects and Import Residue Plan**

LAB	ANALYSIS	# SAMPLES SCHEDULED	# Domestic Samples	# Imported Samples	NOTES
MWL	Antibiotics	10061	9065	996	Domestic: all production classes except egg products Imported: all product classes
EL	Arsenicals	4848	4210	638	Domestic: beef cows, goats, all porcine production classes, and all avian production classes (including egg products) except ratites and squab Imported: fresh and processed poultry and pork
EL	Avermectins	6035	5270	765	Domestic: ratites and all non-avian production classes Imported: all non-avian fresh product classes
MWL, WL	Carbadox	322	230	92	Domestic: 230 roaster pigs Imported: 92 fresh pork
WL	CHC's/COP's/phenylbutazone	10548	8585	1963	Domestic: all production classes except roaster pigs Imported: all product classes
EL	Chloramphenicol	1225	900	325	Domestic: 300 each, dairy cows, formula-fed veal, and non-formula veal Imported: 301 fresh beef and 24 fresh veal
WL	Clenbuterol and other unapproved beta agonists	900	900	0	Domestic: 300 each, market hogs, steers, formula-fed veal
MWL	DES/zeranol/trenbolone (trenbolone tentative)	250	250	0	Domestic: 250 formula-fed veal
MWL	Fluoroquinolones	722	690	32	Domestic: 460 dairy cows and 230 young chickens Imported: 32 fresh chicken, 8 fresh turkey, and 16 fresh other fowl
MWL	MGA	230	230	0	Domestic: 230 heifers
MWL	Ractopamine	350	350	0	Domestic: 230 market hogs and 120 steers
EL, MWL	Sulfonamides	8368	6845	1523	Domestic: all production classes except sheep and rabbits Imported: all product classes
	<b>TOTAL, ALL LABS</b>	<b>43859</b>	<b>37525</b>	<b>6334</b>	

**Key:**

TBD = To be determined; egg products = liquid, dried, and frozen eggs

CHC = Chlorinated hydrocarbon; COP = Chlorinated organophosphate; OP = Organophosphate

EL = FSIS Eastern Laboratory, Athens, GA; MWL = FSIS Midwestern Laboratory, St. Louis, MO; WL = FSIS Western Laboratory, Alameda, CA